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UNITED STATES GOVERNMENT

Memorandum

TO : The Files: Contract No. 3786-3120-5

EP 66-210

DATE: 21 September 1966

FROM : Mr. [REDACTED]
25X1A9a

SUBJECT: Inspection Report No. 10 - AC-3 Antenna Coupler [REDACTED]

25X1A5a1

25X1A5a1

1. Project Description:

The AC-3 is an HF antenna coupler which provides an impedance range of 35 to 1200 ohms resistance and 0 to \pm J1200 ohms reactance and a transmission line of 50 \pm J 0 ohms impedance. The AC-3 is manually operated and provides the impedance match over the 3 to 30 Mc/s range with a VSWR of less than 2:1 while handling 400 watts of continuous RF power. The AC-3 can measure and monitor the forward and reflected power (and hence the VSWR) in the transmission line, and contains a protective circuit which deenergizes the transmitter when a preset level of reflected power is exceeded due to mistuning or malfunction. An internal 50 ohm dummy load (over 3 to 3 Mc/s) is included to permit matching of the transmitter. Primary power to operate the AC-3 is 120/240 (\pm 10%), 50/60 cps, AC mains.

2. Contractual Information: 25X1A1a

25X1A

- a. Initial Cost: [REDACTED] Increase in Scope: [REDACTED]
- b. Request for Procurement Action: 1 March 1965
- c. Initiation Date: 29 March 1965
- d. Completion Date: Two preproduction AC-3's - 15 June 1966;
ninety-eight AC-3's - 90 days after approval
of preprods.
- e. Deliverable Items: One hundred AC-3's w/spares and accessories,
updated engineering drawings

3. Date of Meeting: 15 September 1966

4. Place of Meeting: [REDACTED]

25X1A

5. Persons Attending:



GROUP 1
Excluded from automatic
downgrading and
declassification

EP 66-210

SUBJECT: Inspection Report No. 10 - AC-3 Antenna Coupler [REDACTED] 25X1A5a1
[REDACTED] 25X1A5a1

5. Persons Attending:

	<u>Agency</u>	<u>Non-Agency</u>	
25X1A9a	Mr. [REDACTED]	Mr. [REDACTED]	25X1A5a1
	Mr. [REDACTED]		
	Mr. [REDACTED] co-op student)		

6. Contractor's Performance:

- a. On schedule and expected to remain so: Yes
- b. Within obligated funds and expected to remain so: Yes
- c. Satisfactory technical progress: Yes

7. Project Status:

25X1A9a Warehouse test and inspection procedures were established by
25X1A5a1 Mr. [REDACTED] and were compared to the various test parameters established
by [REDACTED]. An electrically assembled AC-3 was closely examined and
demonstrated under various test conditions. Approximately 20 AC-3's
are in final assembly and waiting for electrical test. [REDACTED] 25X1A5a1
estimates shipment of between 50-70 couplers on 30 September. The
balance of units are estimated to be delivered by 17 October 1966.

[REDACTED] 25X1A9a

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25X1A9a CC-E/R&D-EP/[REDACTED]/bjp

(21 September 1966)